



Green Infrastructure & Stormwater Management CASE STUDY

Central Park Recreation Center

Location: Denver, CO

Client: Park Creek Metro District/ Denver Parks and Recreation

Design Firm(s): AECOM

Landscape architect/Project contact: Gretchen Wilson, ASLA

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ASLA Chapter: Colorado

Project Specifications

Project Description: The Recreation Center is adjacent to a new creek and open space in the Stapleton Development in Denver, so stormwater needed to be infiltrated as much as possible on site. The main parking lot features a central bioswale which all stormwater will filter through before then being piped to another open channel before entering the creek. We also used french drains for the roof drain system so that less stormwater was entering the storm drains.

Project Type:

Recreation center

Part of a new development

Design features: Bioswale, downspout removal, french drains for infiltration.

This project was designed to meet the following specific requirements or mandates:

Developer/client preference

Impervious area managed: 5,000 sq/ft to 1 acre

Amount of existing green space/open space conserved or preserved for managing stormwater on site: 5,000 sq/ft to 1 acre

The regulatory environment and regulator was indifferent to the project.

Did the client request that other factors be considered, such as energy savings, usable green space, or property value enhancements? No.

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: \$50,000-\$100,000 (Public funding: Local)

Was a green vs. grey cost analysis performed? No.

Cost impact of conserving green/open space to the overall costs of the site design/development project: We feel that costs were lower or equivalent to traditional stormwater management costs, but cost studies were not performed.

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)? Slightly reduced costs (1-9% savings).

Number of jobs created: Not available

Job hours devoted to project: Not available

Planning and Design: Not available

Construction: Not available

Annual Maintenance: Not available

Performance Measures

Community & economic benefits that have resulted from the project: The project is in a growing community and offers Denver Parks and opportunity to showcase and educate about stormwater management practices.